

ACC NR: AP7004762

SOURCE CODE: UR/0413/67/000/001/0074/0074

INVENTOR: Andrianov, K. A.; Yakushkina, S. Ye.; Vardosanidze, Ts. N.

ORG: none

TITLE: Preparative method for straight-chain high molecular weight organosilicon elastomers. Class 39, No. 190022 [announced by Institute of Heteroorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 74

TOPIC TAGS: elastomer, silicone, polysiloxane, heat resistant material, organo-silicon compound, organotitanium compound

ABSTRACT: An Author Certificate has been issued for a preparative method for straight-chain high-molecular-weight organosilicon elastomers. The method involves polymerization of alkylarylcyclosiloxanes in the presence of alkali hydroxide catalysts. To produce elastomers with enhanced heat resistance, the starting material used is a mixture of arylalkylcyclosiloxanes with tris[(trimethylsiloxy)polydimethylsiloxano](8-quinolinolato)titanium or with (dimethylsiloxano)bis(8-quinolinolato)titanium. [SM]

SUB CODE: 11, 07/ SUBM DATE: 07Jun65/

Card 1/1

UDC: 678.84

KHAYKINA, B.I.; YAKUSHKO, V.Ye. [Iakushko, V.IE.]

Fermentative splitting of glycoproteins. Ukr. biokhim. zhur.
36 no. 4:624-633 '64. (MIRA 18:12)

1. Institut biokhimii AN UkrSSR, Kiyev. Submitted Jan. 7, 1964.

ACCESSION NR: AP4035110

S/0191/64/000/005/0067/0068

AUTHOR: Kamenskiy, I. V.; Tsepelev, A. S.; Yakushina, T. V.

TITLE: Textolite based on melamine-formaldehyde resin modified with acetone

SOURCE: Plasticheskiye massy*, no. 5, 1964, 67-68

TOPIC TAGS: textolite, melamine formaldehyde resin, modified melamine formaldehyde resin, acetone modified melamine formaldehyde resin, mechanical strength, impact strength, tensile strength, breakdown voltage, electrical property, heat stability, light stability, dielectric property, water resistance

ABSTRACT: A textolite was prepared from an acetone-modified melamine-formaldehyde resin, more stable in concentrated solvents than the unmodified, made according to earlier findings (I. V. Kamenskiy, Ye. P. Smirnova, A. S. Tsepelev, Plast. massy*, no. 2, 1960), and its physical mechanical and dielectric properties were investigated. A melamine-formaldehyde resin containing 9.9% formaldehyde and 2.3% acetone was formed at 70-75 C in 35-45 minutes at a pH of 7-7.5 using 2% (on the weight of the melamine) of a 25% solution of ammonia. The textolite containing 50% resin was made from cotton sheeting pressed at 150 C under 135 kgs/cm²

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ACCESSION NR: AP4035110

pressure with 5 minutes/mm holding. Water resistance of the textolite increased somewhat with increase in molding temperature. It has highly decorative properties and practically does not change upon prolonged irradiation by quartz mercury vapor lamps and under natural conditions. Its impact strength is 23 kgs.cm/cm², tensile strength 843 kgs/cm², Martens heat stability 187 C, specific surface resistance 5.6×10^{13} ohm, specific volume resistance 1.4×10^{13} ohm cm., dielectric permeability 5.4, breakdown voltage 10.9 kv/mm and arc resistance 4 seconds (at 10 milliamps). Orig. art. has: no graphics.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26May64

ENCL: 00

SUB CODE: MT,OC

/ NO REF SOV: 001

OTHER: 000

Card 2/2

ZEMSKOV, Pavel Ivanovich; YAKUSHINA, Yelena Nikolayevna;
KHARCHENKO, Yevgeniy Nikolayevich; ZUBENKO, I.F., dots.,
otv. red.; ALYAB'YEV, N.Z., red.

[Materials and coatings for the piston rings of motor-
vehicle and tractor engines] Materialy i pokrytiia porsh-
nevykh kolets avtotraktornykh dvigatelei. Khar'kov, Izd-
vo Khar'kovskogo univ., 1963. 129 p. (MIRA 17:8)

YAKUSHEVA, Ye.P.

Seasonal changes in the amino acid composition of mulberry leaves.
Nauch.dokl.vys.shkoly; biol.nauki no.4:174-179 '65.

(MIRA 18:10)

1. Rekomendovana kafedroy organicheskoy khimii Instituta
narodnogo khozyaystva im. C.V.Plokhanova.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020012-8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020012-8"

YAKUSHKINA, Ye.P.

Assimilation of amino acids of food by the silkworm *Bombyx mori*. Nauch.dokl.vys.shkoly;biol.nauki no.3:102-105 '58.

(MIRA 11:12)

1. Predstavlena laboratoriyey organicheskoy i biologicheskoy khimii Moskovskogo gosudarstvennogo pedagogicheskogo instituta imeni V.I.Lenina.

(Amino acid metabolism) (Silkworms)

YAKUSHKO, O.F.

DEMENT'YEV, V.A., dotsent; POMANOVSKIY, N.T., dotsent; SHKLYAR, A.Kh., dotsent;
~~YAKUSHKO, O.F., dotsent; RZHEVTSKIY, A.F., red.; STBRZHANOV, P.M., tekhn.~~
red.

[Tourist guide to White Russia] Turistskie marshruty po Belorusskoi SSR. Minsk, Gos.uchebno-i dagog.izd-vo M-va prosveshchenia BSSR, 1957. 180 p. (MIRA 11:12)

1. Vsesoyuznyy tsentral'nyy sovet professional'nykh soyuzov. Turistsko-ekskursionnoye upravleniye. Minskaya ekskursionnaya baza.

(White Russia--Guidebooks)

USSR / Soil Science. Genesis and Geography of Soils. J-1

Abs Jour: Ref Zhur-Biol., No 8, 1958, 34308.

Author : Yakushko, O. F.

Inst : Belorussian University..

Title : Soil-Geographic Zoning of Belorussian SSR.

Orig Pub: Uch. zap. Belorussk. un-t, 1957, vyp. 35, 47-59.

Abstract: On the territory of BSSR, the following soil zones have been established: 1. peaty, strong- and medium-podzolic argillaceous and loam soils; 2. peaty, medium-podzolic sandy loam soils; 3. weak- and medium-podzolic sandy soils, often swamped; 4. peat-sod swampy soils; 5. alluvial-meadowy soils of river valleys; 6. humus-carbonaceous (peaty) soils on carbonaceous varieties or subsurface waters saturated with Ca. Certain measures for the increase of fertility of the soils of the Republic are indicated. -- F. N. Sofiyova.

Card 1/1

YAKUSHKO, O.F.

Morphology of some lakes in northern White Russia. Trudy
Geofiz. BGU no.1:81-110 '58. (MIRA 12:8)
(White Russia--Lakes)

YAKUSHKO, O.F.

Geomorphological observations of the northeastern part of
Dzerzhinsk District. Trudy Geofaka BGU no.2:17-20 '58.
(MIRA 13:5)
(Dzerzhinsk District (Minsk Province)--Geology, Structural)

ZHUCHKEVICH, Vadim Andreyevich; YAKUSHKO, Ol'ga Filippovna [IAkushka, O.F.];
RZHEUTSKIY, A.F. [Rzheutski, A.F.], red.; SOSNOVICH, A.I.
[Sasinovich, A.I.], tekhn.red.

[Geography of the White Russian S.S.R.; textbook for the
secondary school] Geografia Belaruskai SSR; vuchebny dapa-
mozchnik dla siaredniai shkoly. Minsk, Dziarzh.vuchebna-
pedagog.vyd-va M-va savety BSSR, 1960. 72 p.

(White Russia--Geography)

(MIRA 14:2)

ZHUCHKEVICH, Vadim Andreyevich; YAKUSHKO, O.F.

[Geography of the White Russian S.S.R.; textbook for eight-year schools] Geografiia Belorusskoi SSR; uchebnoe posobie dlia vos'miletnei shkoly. Izd.3., dop. Minsk, Gos.uchebno-pedagog. izd-vo, 1962. 91 p. (MIRA 17:4)

KHAYKINA, B.I.; YAKUSHKO, V.Ye. [Iakushko, V.IE.]

Brain polyglucosides. Ukr. biokhim. zhur. 36 no.5:665-672
'64. (MIRA 18:6)

1. Institut biokhimii AN UkrSSR, Kiyev.

KHAYKINA, B.I.; YAKUSHKO, V.Ye. [Iakushko, V.IE.]

Transglucosylase of the brain. Ukr.biokhim.zhur. 34 no.6:876-882
'62. (MIRA 16:4)

1. Institute of Biochemistry of the Academy of Sciences of the
Ukrainian S.S.R., Kiev.
(TRANSGLUCOSIDASE) (BRAIN)

TARASOVA, A.G.; KALUGINA, A.Ya.; YAKUSHKOVA, A.Ye.

Three-column continuous action apparatus for the production of
acetic acid. Gidroliz. i lesokhim.prom. 18 no.1:24-25 '65.

(MIRA 18:3)

1. Ashinskiy lesokhimicheskiy kombinat.

~~YAKUSHOV, B.I.~~ [IAkushan, B.I.]

Mobile phosphates in swamped soils developing from two-component
parent materials--loam and clay. Vestsi AN BSSR.Ser.bifal.nav.
no.2:56-66 '59. (MIRA 12:9)
(PHOSPHATES) (SOIL CHEMISTRY)

45746

S/194/62/000/012/013/101
D201/D308

9.7200

AUTHORS:

TITLE:

PERIODICAL:

Sokolov, N. I. and Yakushov, V. M.

Application of continuous analog computers to static d.c. and a.c. simulator computations

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 65-66, abstract 12-1-130 ya (Dokl. na 4-y Mezhvuz. Konferentsii po primeneniyu fiz. i matem. modelirovaniya v razlichn. otraslyakh tekhn. Sb. 2. M., 1962, 25-38).

TEXT: It is pointed out that the use of d.c. and a.c. simulators in conjunction with continuous analogs results in quicker calculations and increases the number of problems which are solved. It is shown that, in the calculation of a.c. currents due to several simultaneous faults or a.c. currents in systems with disconnected phase, the components of continuous analogs may be used for electrical simulation of 'ideal' transformers or for automatic setting of operating conditions which satisfy the limiting conditions at

Card 1/2

Application of continuous ...

8/194/62/000/012/013/101
D201/D308

the damaged point. The possibility of using these components for the reproduction of nonlinear static load characteristics is investigated. It is also shown that it is possible to take into account the real transformation coefficient when working with static a.c. simulator and to take into account the mutual inductance between the lines in null-to-sequence circuits, when the simulators are coupled with analogs. 2 references. [Abstracter's note: Complete translation.]

Card 2/2

YAKUSHOVA, A. F.

Yakushova, A. F. "On the protective role of surfacer formations in karst processes",
Trudy Laboratorii gidrogeol. problem im. akad. Savarenskogo (Akad. nauk SSSR, Otd-niye
geol.-geogr. nauk), Vol. III, 1948, p. 343-52, - Bibliog: 5 items.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh, Statey, No. 2, 1949).

YAKUSHOVA, A.F.

Yakushova, A.F. "Karst and hydraulic construction", In the collection: Karstovedeniye,
Issue 4, Molotov, 1948, p. 3-13, - Bibliog: 18 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

YAKUSHOVA, A.F., dotsent

Karst phenomena in Paleozoic carbonate regions of the East European
Plain. Uch. zap. Mosk. un. no.136:55-109 '49. (MIRA 11:10)
(East European Plain--Karst)

YAKUSHOVA, A.P.

~~XXXXXXXXXXXXXXXXXXXX~~

The most recent movements of the earth's crust in the north-western and western Caspian Sea region. Vest.Mosk.un. 10 no.10: 15-29 0 '55. (MIRA 9:4)

1.Kafedra dinamicheskoy geologii.
(Caspian Depression--Earth movements)

YAKUSHOVA, Aleksandra Fedorovna, kandidat geologo-mineralogicheskikh nauk; GORSHKOV, G.P., doktor geologo-mineralogicheskikh nauk, nauchnyy redaktor; SKONECHNAYA, A.D., redaktor; YUSFINA, N.L. tekhnicheskii redaktor.

[How mountains are destroyed] Kak razrushaiutsia gory. Moskva, Goskul'tprosvetizdat, 1957. 17 p. and 6 plates in portfolio. (MLRA 10:5)

(Mountains)

YAKUSHEVA, A.F.

3(5)

PHASE I BOOK EXPLOITATION

SOV/1484

Gorshkov, Georgiy Petrovich, and Aleksandra Fedorovna Yakusheva

Obshchaya geologiya (General Geology) Moscow, Izd-vo Mosk. univ.,
1957. 465 p. 18,000 copies printed.

Ed. (Title page): M.M. Charygin; Ed. (Inside book); K.A. Shilova;
Tech. Ed.: V.P. Gur'yanov

PURPOSE: This work is intended as a textbook for students at the
university level.

COVERAGE: This book constitutes an introductory course in geology,
and is based on a series of lectures given by the authors at the
geographical and geological faculties of the University of Moscow.
The book is published under the auspices of the Ministry of Higher
Education of the USSR as a textbook for state universities. Part I
contains basic information on the forms, composition, dimensions,

Card 1/11

General Geology

SOV/1484

and age of the earth. Part II describes exogenic processes, and Part III, endogenic processes. Chapters 1-3 and 11-17 were written by G.P. Gorshkov, Doctor of Geological and Mineralogical Sciences, and Chapters 4-10 and 18 by A.F. Yakushova, Docent with the Division of Dynamic Geology of the Moscow State University and a Candidate of Geological and Mineralogical Sciences. The authors express their gratitude to Academician D.I. Shcherbakov and M.M. Charygin of the Department of Geology of the Leningrad State University imeni A.A. Zhdanov for their assistance in reviewing and editing their book. There are 246 diagrams, 36 tables, and 185 Soviet references.

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From the authors

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Introduction

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PART I

GENERAL PROBLEMS

Ch. 1. Form and Size of the Earth

11

Card 2/11

YAKUSHOVA, A.F.

Formation of certain thermal springs in Red Basin (Chinese People's Republic). Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:222-225 '58.
(MIRA 12:2)

1. Moskovskiy universitet, geologicheskoy fakul'tet, kafedra dinamicheskoy geologii.
(Red Basin--Springs)

YAKUSHOVA, A.F.

Neotectonics of eastern and central Ciscaucasia. Sov. geol. 3 no.8:
75-86 Ag '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. V.M. Lomonosova.
(Caucasus, Northern--Geology, Structural)

SEMENOV, M.P.; SOKOLOV, D.S.; SHANTSER, Ye.V.; YAKUSHEVA, A.F.

Geological conditions in the Yangtze Valley from the point of view
of hydraulic engineering. Trudy Lab. inzh. gidrogeol. VODGEO
no. 3:58-104 '60. (MIRA 14:4)
(Yangtze Valley--Geology) (Hydraulic engineering)

Труды Лаб. ЮЖ

YAKUSHOVA, A.F.; CHISTYAKOV, A.A.

Geomorphological features of recent uplifts. Vest.Mosk.un.Ser.4:
Geol. 15 no.2:27-37 Mr-Apr '60. (MIRA 14:4)

1. Kafedra dinamicheskoy geologii Moskovskogo universiteta.
(Geology, Structural)

BARSANOV, G.P.; BOGDANOV, A.A.; YERMAKOV, N.P.; KRASHENINNIKOV, G.F.;
SERGEYEV, Ye.M.; SMIRNOV, V.I.; YAKUSHOVA, A.F.

International geological congress in Copenhagen. Vest. Mosk. un.
Ser. 4: Geol. 15 no.6:3-12 N-D '60. (MIRA 14:1)
(Geology--Congresses)

YAKUSHOVA, Aleksandra Fedorovna, kand. geologo-mineralog. nauk; SMIRNOVA,
N.P., red.; NAZAROVA, A.S., tekhn. red.

[Formation and disintegration of mountains] Obrazovanie i razru-
shenie gor. Moskva, Izd-vo "Znanie," 1961. 39 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh
znani. Ser. 12, Geologiya i geografii, no.9) (MIRA 14:5)
(Mountains)

GORSHKOV, Georgiy Petrovich, prof; YAKUSHOVA, Aleksandra Fedorovna,
prof.; BELYAKOVA, Ye.V., red.; LAZAREVA, L.V., tekhn. red.

[General geology] Obshchaya geologiya. Izd.2. Moskva, Izd-vo
Mosk. univ., 1962. 563 p. (MIRA 15:4)

1. Kafedra dinamicheskoy geologii Moskovskogo gosudarstvennogo
universiteta (for Gorshkov, Yakushova).
(Geology)

YAKUSHOVA, A.F.

Methods for structural and geomorphological investigations in
prospecting for oil and gas. Vest. Mosk. un. Ser. 4: Geol. 19
no.3:13-29 My-Je '64. (MIRA 17:12)

1. Kafedra dinamicheskoy geologii Moskovskogo universiteta.

YAKUSHOVA, A.P.; SYGAYEV, N.A.; CHISTYAKOV, A.A.; KONDAKOVA, L.P.;
PILATOV, O.M.; ULITSKIY, M.A.; SYRNEV, I.P.

Main characteristics of the geomorphology and recent tectonics in
the Volga-Don territory. Trudy NILneftegaza no.13:171-186 '65.
(MIRA 12.9)

SUKACHEV, V.N.; BOGDANOV, A.A.; IVANOVA, I.K.; LAZUKOV, G.I.; NIKOLAYEV, N.I.;
YAKUSHOVA, A.F.; GELLER, S.Yu.; GRICHUK, V.P.; KOLESNIK, S.V.;
SOKOLOV, N.N.; LICHKOV, B.I.; GORETSKIY, G.I.; SHCHUKIN, I.S.;
BYKOV, V.D.; SAUSHKIN, Yu.G.; GLAZOVSKAYA, M.A.; GVOZDETSKIY, N.A.;
TUSHINSKIY, G.K.

Konstantin Konstantinovich Markov's role in the creation and development of the paleogeography of the anthropogenic (the Quaternary) period; on his 60th birthday and the 40th anniversary of scientific work. Izv. Vses. geog. ob-va 97 no.4:377-379 J1-Ag '65.

(MIRA 18:8)

GUBCHEVSKIY, P.V., inzh.; YAKUSHOVA, K.A., inzh.

Equipment for the manufacture of large ingot molds in mechanized plants. Stal' 21 no.12:1134-1137 D '61. (MIRA 14:12)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Ingot molds)
(Foundries—Equipment and supplies)

GUBCHEVSKIY, P.V., inzh.; KAZANOVSKIY, L.V., inzh.; NIKOL'SKIY, M.A., inzh.;
YAKUSHOVA, K.A., inzh.

Casting of slab molds for large ingots of liquid blast furnace
cast iron. Stal' 23 no.3:274-278 Mr '63. (MIRA 16:5)

1. Magnitogorskiy metallurgicheskiy kombinat i Ufaleyskiy
metallurgicheskiy zavod.

(Ingot molds) (Iron founding).

4
17

L 13707-63

EWI(d)/FCC(w)/BDS AFFTO IJP(C)

ACCESSION NR: AP3003506

8/0020/63/151/001/0076/0079

AUTHOR: Yakut, L. I.

52

TITLE: Control of convergence of difference schemes 16

SOURCE: AN SSSR. Doklady*, v. 151, no. 1, 1963, 76-79

TOPIC TAGS: finite-difference equation, Banach space, bounded operator

ABSTRACT: The bounded operators $A_n(t)$ defined in a rather narrow subspace E_1 of a Banach space E are required to satisfy the uniform condition (1) of the enclosure. If L_n is the subspace on which $A_n(t)$ vanishes, set $S_n = E_1/L_n$. The following problem is considered: under what conditions the differential equation $du/dt + A(t)u = f(t)$ in E reduces to the finite-difference equation (2) defined in S_n . The results obtained are applicable to the proof of the convergence of stable explicit difference schemes for boundary-value problems of the form (3). "The author expresses his sincere gratitude to S. G. Kreyn under whose direction the work was completed." The paper was presented by Academician I. G. Petrovskiy on 22 January 1963. Orig. art. has: 11 formulas.

ASSOCIATION: none

SUBMITTED: 19Jan63

DATE ACQ: 30Jul63

ENCL: 01

SUB CODE: MM

NO REF SOV: 009

OTHER: 005

Card 1/2/

L 16489-65 EWT(d) ESD(dp)/ESD(gp)/AFWL/IJP(c)
 ACCESSION NR AP4041393 S/0020/64/156/006/1304/1307

AUTHOR: Yakut, L. I.

TITLE: Lax theorems for nonlinear evolutionary equations

SOURCE: AN SSSR. Doklady*, v 156, no. 6, 1964, 1304-1307

INDEXING TERMS: finite difference method; finite difference scheme; evolutionary equation; nonlinear equation; numerical method; approximate method; partial differential equation

ABSTRACT: Because previous generalizations of Lax's theorem about convergence of stable difference schemes permit discussion of only special types of nonlinearities, and have stability conditions formulated so that they can be verified

the presence of the principle of the maxi-

linear principle, parts

$$du/dt + A(t)u = \varphi(t, u) \quad (1)$$

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1. 20484-65
ACCESSION NR. AP4041393

($u(t)$ is the function sought) and quasilinear equations

$$du/dt + B(t, u)u = 0. \quad (2)$$

Initially discussing equations of the form

$$du/dt + A(t)u = f(t) \quad (0 < t \leq T), \quad (3)$$

where $A(t)$ is, for all $t \in [0, T]$, a linear unbounded closed operator defined in a Banach space E with dense domain of existence $D(A)$ independent of t , and $f(t)$ is a given function satisfying the initial condition

$$u(0) = u_0, \quad (4)$$

the author states, without proof, conditions for convergence in norm of the solutions of finite-difference analogue to the solutions of problems (3)-(4) and (1)-(4). The author also states, also without proof, conditions under which the finite difference analogue of the first boundary-value problem for equations of the form

$$\partial u / \partial t + \mathcal{F}(x, t, u)u = 0, \quad (10)$$

where $\mathcal{F}(x, t, u)$ is a quasilinear elliptic operator with coefficients depending only

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APPROVED FOR RELEASE
ACCESSION NR: AP4041393

on the unknown function u , converges to the solution of equation (10) with the initial condition

$$u(0, x) = u_0(x)$$

and the boundary conditions. "The author would like to express his great gratitude to G. Kreyn for whose direction this paper was written. Original articles 10 equations

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University).

SUBMITTED: 30Jan64

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 002

Card 3/3

L 13707-63

EWT(d)/FCC(w)/BDS AFFTC IJP(C)

ACCESSION NR: AP3003506

8/0020/63/151/001/0076/0079

AUTHOR: Yakut, L. I.

TITLE: Control of convergence of difference schemes

SOURCE: AN SSSR. Doklady*, v. 151, no. 1, 1963, 76-79

TOPIC TAGS: finite-difference equation, Banach space, bounded operator

ABSTRACT: The bounded operators $A_n(t)$ defined in a rather narrow subspace E_1 of a Banach space E are required to satisfy the uniform condition (1) of the enclosure. If L_n is the subspace on which $A_n(t)$ vanishes, set $S_n = E_1/L_n$. The following problem is considered: under what conditions the differential equation $du/dt + A(t)u = f(t)$ in E reduces to the finite-difference equation (2) defined in S_n . The results obtained are applicable to the proof of the convergence of stable explicit difference schemes for boundary-value problems of the form (3). "The author expresses his sincere gratitude to S. G. Kreyn under whose direction the work was completed." The paper was presented by Academician I. G. Petrovskiy on 22 January 1963. Orig. art. has: 11 formulas.

ASSOCIATION: none

SUBMITTED: 19Jan63

SUB CODE: MM

Card 1/2

DATE ACQ: 30Jul63

NO REF SOV: 009

ENCL: 01

OTHER: 005

SOURCE: Ref. zh. Matematika, Aps. 3B. 1

AUTHOR: Yakut, L. I.

TITLE: On the convergence of finite-difference methods¹⁶ of solution of evolutionary equations

CITED SOURCE: Rr. Seminara po funkts. analizu. Voronezhsk. un-t, vy*p. 7, 1966, 156-177

... evolutionary equations.

homogeneous ...

... of the ...

... of the ...

The known Laksi theorem is developed by

Card 1/2

ACCESSION NR: AR4046315

SUB CODE: MA
Card 2/2

SOV/137-59-2-4276

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 279 (USSR)

AUTHOR: Yakuta, K. I.

TITLE: Limitations in the Employment of Stamping Dies Made of Hard Alloys
(Granitsy tselesoobraznogo primeneniya tverdosplavnykh shtampov)

PERIODICAL: V sb.: Elektr. i ul'trazvuk metody obrabotki materialov. Leningrad,
Lenizdat, 1958, pp 187-194

ABSTRACT: According to foreign and domestic experience, the over-all durability (D) of hard-alloy dies (HAD) is 20 - 30 times greater than that of steel dies, whereas their D between regrinding operations is 8 times as great. Compared with steel dies, the initial cost of the HAD's is 2 - 3 times as great; the cost of their regrinding exceeds that of steel dies by approximately 60%. On the strength of these data the following diagrams were plotted: 1) Relative cost of carbon, alloyed, and HAD's as referred to their total service life; 2) the D of the three types of dies; 3) the cost of the dies per 1000 manufactured articles. Graphs are also given for the above dies representing variations in cost during retooling of blanking and drawing dies in accordance with the complexity and thickness of articles to be manufactured. Limits

Card 1/2

SOV/137-59-2-4276

Limitations in the Employment of Stamping Dies Made of Hard Alloys

for economically rational employment of blanking and drawing HAD's consistent with the conditions of mass production were established per thousand manufactured articles.

A. F.

Card 2/2

MANAYEVA, Ol'ga Vasil'yevna; YAKUTA, Kira Ivanovna; GAVRILOV, R.A.,
red.; SOBOLEVA, Ye.M., tekhn. red.

[Economic calculations in the manufacture of electric and
vacuum devices] Ekonomicheskie raschety v elektrovakuumnom
proizvodstve. Moskva, Gosenergoizdat, 1963. 186 p.

(MIRA 16:8)

(Electric equipment industry) (Electron tubes)

ACC NR: AR6035573

SOURCE CODE: UR/0044/66/000/009/V046/V046

AUTHOR: Yakutavichyus, A. Yu.

TITLE: Application of the space of tests for analysis of the code method of pattern recognition

SOURCE: Ref. zh. Matematika, Abs. 9V314

REF SOURCE: Sb. Avtomatika i vychisl. tekhn. Vil'nyus, 1965, 20-22

TOPIC TAGS: pattern recognition, test, statistics, code method, test space, *COMPUTER CODING*

ABSTRACT: A method is studied which is based on the recognition of a series of pattern cross-sections with definite combinations of the repetition of black and white sectors (codes). There are S number of cross-sections (columns) and K number of codes. Thus, the pattern is a vector with coordinates $a_{ij} = 1$ or 0 ($i = 1, \dots, s; j = 1, \dots, k$). The reference vectors e_v ($v = 1, \dots, m$; m is the number of classes) are selected from statistics. The Hemming distance is used and the analysis of distances is carried out in subspace s of the measurements (from the basic space ks , the coordinate axes where $a_{ij} = 1$ are selected). Data

Card 1/2

UDC: 51:681.14:155

ACC NR: AR6035573

of the analysis of 10 typewritten digits on the basis of 100 reproductions of each digit are presented. All the reproductions of digits 0, 1, 2, 3 are recognized on the basis of reproductions of digits 5, 6 and 9—98; for digits 4, 7, 8, the results are 99, 93, 96, respectively. There is a bibliography of 3 titles. [Translation of abstract]
[DW]

SUB CODE: 09/

Card 2/2

YAKUTILOV, M.

Effect of the degree of erosion of soils on the yield of grain
and oilseed crops in mountainous and piedmont regions of Tajikistan.
Dokl. An Tadzh. SSR 2 no. 5:31-36 '59. (MIRA 13:12)

1. Institut pochvovedeniya AN Tadzhikskoy SSR. Predstavleno
akademikom AN Tadzhikskoy SSR I.N. Antipovym-Karatayevym.
(Tajikistan--Crop yields) (Erosion)

USSR / Soil Science. Soil Genesis and Geography.

J

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6036.

Author : Yakutilov, M. R.

Inst : Uzbek University.

Title : The Soil Cover of Bayram-Ali Alluvial Fan in
the Great Kara-Kum Canal Zone.

Orig Pub: Sb. stud. rabot Uzb. un-ta, 1956, vyp. 1, 91-94.

Abstract: The Bayram-Ali alluvial fan is one of the terraces in the Murgab River delta. The earth here has been irrigated in the past. It is classified as suitable for cotton after non-complex ameliorations have been applied.

Card 1/1

YAKUTILOV, M.R.

Soil erosion in Fayzabad. Izv. Otd. est. nauk AN Tadzh. SSR no. 24:47-
56 '57. (MIRA 11:10)

1. Institut pochvovedeniya melioratsii i irrigatsii AN
Tadzhikskoy SSR.
(Fayzabad District--Erosion)

YAKUTILOV, M.R.

Preliminary division of western Tajikistan into soil erosion districts. Dokl. AN Tadzh. SSR 1 no. 4:27-31 '58. (MIRA 13:4)

1. Institut pochvovedeniya AN Tadzhikskoy SSR. Predstavleno akademikom AN Tadzhikskoy SSR I. N. Antipovym-Karatayevym.
(Tajikistan--Erosion)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 60

... computer input device, information processing

ABSTRACT: This Author Certificate presents a method for inputting information
with the information represented in the form, for example, of a

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020012-8

C-1 2/2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020012-8"

YAKUTIN, L., starshiy matros

Toilers of the sea. Starsh.-serzh. no.6:21 Ja '62.
(Diving, Submarino)

(MIRA 15:7)

OVCHARENKO, I.Ye.; TUNITSKIY, L.N.; YAKUTIN, V.I.

Vibration constants and dissociation energy of the BeCl molecule.
Opt. i spektr. 8 no.6:746-751 Je '60. (MIRA 13:8)
(Silicon chloride--Spectra)

30541
S/051/60/008/06/002/024
E201/E691

5.4130

AUTHORS: Ovcharenko, I.Ye., Tunitskiy, L.N. and Yakutkin, V.I.

TITLE: Analysis of the Fine Structure of the SiCl Molecular Bands

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 746-751 (USSR)

ABSTRACT: Four electron states ($X^2\Pi$, $B^2\Sigma$, $C^2\Delta$ and $D^2\Sigma$) of the SiCl molecule are known (Refs 1-4). The vibrational constants of these four states were reported by Jevons (Ref 4) and are listed in Table 1; the constants with question marks were considered unreliable by Jevons. The present paper reports new values of the rotational constants of the $B^2\Sigma$, $X^2\Pi_{3/2}$, $X^2\Pi_{1/2}$ states, derived from the rotational analysis of the (1, 0), (0, 0) and (0, 1) bands of the $B^2\Sigma \rightarrow X^2\Pi$ transition. The spectra of SiCl were excited in a quartz pulse-discharge tube, similar to one used earlier (Ref 5) and shown schematically in a figure on p 746. The tube was filled with a mixture of silicon tetrachloride and helium. The spectra were photographed with a DFS-3 spectrograph in the third order (dispersion of 0.57 Å/mm, resolving power of 432 000), and measured with a IZA-2 comparator (an iron arc spectrum was used as the wavelength standard, cf. Table 2).

Card 1/2

80541

8/051/60/008/06/002/024
E201/E691

Analysis of the Fine Structure of the SiCl Molecular Bands

For the $X^2\Pi_{1/2}$ state the following rotational constants were obtained: $B_1 = 0.2550$, $\alpha = 0.0016$, $D_e = 2.341 \times 10^{-7}$, $a = 0.004 \pm 0.001 \text{ cm}^{-1}$; for $X^2\Pi_{3/2}$: $B_2 = 0.2556$, $\alpha = 0.0016$, $D_e = 2.355 \times 10^{-7} \text{ cm}^{-1}$; for $B^2\Sigma$: $B = 0.2782$, $\alpha = 0.0015$, $D_e = 1.762 \times 10^{-7} \text{ cm}^{-1}$ (Table 3). The wavenumbers of the (0.1), (0.0), (1.0) lines of the $2\Sigma \rightarrow 2\Pi_{1/2}$ transition were respectively 33662.0, 34193.6, 34892.2 cm^{-1} ; for the $2\Sigma \rightarrow 2\Pi_{3/2}$ they were 33455.7, 33987.1, 34685.8 cm^{-1} , respectively. There are 1 figure, 3 tables and 6 references, of which 2 are Soviet, 3 English and 1 German.

SUBMITTED: July 20, 1959

Card 2/2

YAKUTINA, K.I., inzh.-ekonomist

~~Economic efficiency of using electric spark machining in making~~
dies. Trudy LIEI no.18:121-139 '57. (MIRA 12:9)
(Dies (Metalworking)) (Electric metal cutting)

YAKUTINA, M. F. Cand Med Sci -- (diss) "Vessels and nerves of ²uterine scar~~4~~." Mos, 1958. 13 pp (Min of Health USSR. Central Inst for the Advanced Training of Physicians), 200 copies (KL, 52-58, 108)

-140-

YAKUTKINA, N.A., kand.med.nauk

Dehiscence of the tympanic cavity in children. Zhur. ush., nos.
1 gorl. bol. 20 no.1:48-53 Ja-F '60. (MIRA 14:5)

1. Iz kafedry normal'noy anatomii (zav. - zasluzhennyi deyatel'
nauki prof. M.S.Spirov) Kiyevskogo ordena Trudovogo Krasnogo Znameni
meditsinskogo instituta imeni akademika A.A.Bogomol'tsa.
(EAR—DISEASES)

YAKUTKINA, N.A., kand.med.nauk

Tuba auditiva in man at an early age. Zhur. ush., nos. 1 gorl.
bol. 21 no.5:66-69 8-0 '61. (MIRA 15:1)

1. Iz kafedry normal'noy anatomii (zav. - zasl. deyatel' nauki
prof. M.S.Spirov) Kiyevskogo Ordena Trudovogo Krasnogo Znameni
meditsinskogo instituta imeni A.A.Bogomol'tsa.
(EUSTACHIAN TUBES)

TOPIC TAGS: Food poisoning, microorganism contamination,
industrial medicine

ABSTRACT: Cases of staphylococcus food poisoning following

products (butter, condensed milk, or prepared products), used in pastry production. An analysis of the sugar and moisture

favorable for staphylococci multiplication and toxin production.

Also, improper storage of pastry products found in some bakery shops may contribute to the growth of toxic staphylococci. Orig. art. has:
None.

Qualificatsionnyi Institut Im. M. I. Kalinina
Voenno-Meditsinskii Institut

YAKUTOV, N. A.

YAKUTOV, N. A. -- "Problems and Questions in the Process of Teaching Physics in the Secondary Schools (Classes VIII-X)." Cand Pedagog Sci, Sci Res Inst of Teaching Methods, Acad of Pedagogical Sciences USSR, Moscow 1953. (Referativnyy Zhurnal--Fizika, Jan 54

SO: SUM: 168, 22 July 1954

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>CA YAKUTOVICH, L.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Increase in the content of light fractions in cracked gasoline. L. Potolovskii and L. Yakutovich. <i>Gorizonty Neftyanik</i> 6, No. 7, 47-9 (1966).—The operations consisted in a consecutive lowering of the content of the butylene-butane fraction and an investigation of the obtained gasolines. The fractions were removed by the freezing-out method with Potolovskii's app. and the gasolines were stabilized in the usual manner. The results are tabulated. A. A. Bochtlingk.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>REGION SYNOBOL</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>REGION SYNOBOL</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BI-5, Irons Metallurgy

G. A. YAKUTOVICH, M. S.

✓ **Residual tension in cementation steel discs tempered at temperatures below the Ac3 point.** E. S. Yakovleva and M. S. Yakutovich. *J. U.S.S.R. Phys., USSR, 1948, 10, 207-210.*—The magnitude and distribution of stresses arising in cementation discs of a low-C steel tempered from below the Ac3 point have been determined. Steel discs (0.12% of C) with cementite to a depth of 0.7–0.8 mm, were ground to 49×12×3.8 mm., heated to 610° for 10 min., quenched in H₂O, and examined by Stabinski's method using an optometer; reproducibility of results was 4 μ. The sum of the tensile stresses was found to be equal to the compressive stress with ~3%. W. Hiron.

19

The kinetics of the mechanical twinning of crystals.
 Yakutovich and H. Yakovleva. *J. Tech. Phys.*
 (U.S.S.R.) 8, 1171-7 (1935).—The dependence of twin-
 ing upon the speed of increase of external forces and upon
 the effect of a repeated action of forces on an already
 twinned sample in crystals of Sn, Bi and calcite were
 studied. Local deformations cause formation of twins
 having a wedge-shaped form far beyond the limits of the
 formed zone; the greater the angle of crystallographic
 slip the greater the vertex angle of the wedge. The
 length of twins is greater from shock deformation than
 from static loading to compensation by scattering of the first
 impulse in the energy of the elastic wave spreading from
 the place of shock, and possibly to the increase of the
 first impulse through increase of the elastic limit. The
 twin formed at the point of excessive stress spreads with
 approx. the speed of sound in the direction of slip. The
 energy of the first impulse of twinning is scattered partly
 in the edges and partly remains in a potential form in the
 twinned region.
 P. H. Rathmann

9

Jump-like deformation of zinc crystals. R. S. Yakovlev and M. V. Yakutovich. *Zh. Eksp. i Teor. Fiz.* (U. S. S. R.) **1744** (1974). The jump-like deformation is a result of change of the kinetics of slip with temp. In stretching a Zn crystal the deformation of one jump is distributed along the whole length of the crystal. The traces of slip, weakly marked after the first jump, become sharp in the following jumps. The force diagram of a single jump has 2 parts: (1) the resistance rises above the applied force and (2) the resistance falls but does not reach the applied force. The remaining resistance is reduced during applied force. The remaining resistance of the crystal becomes rest, and when the resistance of the crystal becomes rest, equal to the applied force, the jump is repeated. The remaining resistance can be explained by the exhaustion of "active" nonhomogeneities and weakening by their restoration. P. H. Rathmann

YAKUTOVICH, M. V.

Studying the Process of Plastic Deformation b Means of a Microinterferometer in order to Investigate the Nature of the Sliding Process in Metals.

M: Problemy Sovremennoy Fiziki, 1936, Moscow, Leningrad

Soviet Source:

Abstracted in USAF "Treasure Island" Report No. 6Q438, on file in Library of Congress, Air Information Division.

[illegible]

YAKUTOVICH, M. V.

Mechanism of Plastic Deformation. (Report at a Session of the Physical and Mathematical Sciences Department of the AN SSSR, Sverdlovsk). AN SSSR (Physics Series) No 6, 843, 1937.

YAKUTOVICH, M. V.

"Rationalization of the System of the Basic Characteristics of the Mechanical Properties of Metals. (Report during a Session of the Physical and Mathematical Sciences Department of the AN SSSR, Sverdlovsk, May 1937). AN SSSR (Physics Series) No. 6, 1937, p 844

YAKUTOVICH, M. V., YAKOVLEVA, E. S., AVERKIYEV, V. S.

Apparatus for the Plotting of Texture Graphs.

Zav. Labor, No 8, 643, 1939.

YAKUTOVICH, M. V., KURNOSOV, D. G.

Method of Measuring Stresses in the Surface Layer of Metal Products.
Zav. Labor. No 10, 1939.

1ST AND 2ND COPIES

PROCESSES AND PROPERTIES INDEX

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[illegible]

YAKUTOVICH, M. V.

MARKELOV, V. V., YAKUTOVICH, M. V., VOSKRESENSKIY, V. N.

Dynamometer for Thin-Sheeted Lattices. Steel 5, 185, 1945.

YAKUTOVICH, M.V.

AVERKIYEV, V. S., KOLESNIKOV, G.N., PAVLOV, V. A., YAKUTOVICH, M. V.

Plastic Deformation and Destruction of Polycrystalline Metals During
Elongation. I. Apparatus for the Elongation of Wires in a Wide Range
of Temperatures and of Deformation Rates. ZhETF 16, 1349, 1946.

YAKUTOVICH, M. V.

KOLESNIKOV, G. N., RYBALKO, F. P., YAKUTOVICH, M. V.

Simple Elastic Dynamometer for a Torsion Machine. Zav. Labor.
No 13, 1947.

13

Determination of Impact Strength of Thin Sheet Material. (In Russian.) Ya. S. Yakovleva and M. V. Yakulovich. *Zavodskaya Laboratoriya* (Factory Laboratory), v. 13, Oct. 1947, p. 1203-1206.

Test specimens, apparatus, and procedure for the above are described and diagrammed.

CA

Use of the recrystallization texture and grain coarsening for improvement of transformer steels. P. P. Ryshko and M. V. Yakutovich (Ural. Filial Akad. Nauk S.S.S.R., Sverdlovsk). *Zhur. Tekh. Fiz.* 17, 1603-12(1947).—Specimens of transformer steel contg. 3.68 and 4.2% Si were subjected to cold-rolling (10-70% reduction), heat-treated at 700-1100°, and the coercive force and permeability detd. Optimum properties in 4.2% Si steel were obtained by 60-70% cold reduction, recrystn. at 1000° for 40-60 min., followed by 4-5% cold reduction and recrystn. at 1000° for 3-4 hrs.; this resulted in a grain size of 3-5 mm. and a coercive force of 0.24 oersteds. For 3.68% Si steel, the optimum treatment was similar, except that only 24-40 min. was required for the first recrystn. H. W. Rathmann

CA

2

Effect of changes of the parameter of crystal lattice of supercooled austenite on the temperature of the beginning of martensite transition in carbon iron alloys. V. I. Sadlovskii and M. V. Yakubovich. *Doklady Akad. Nauk S.S.S.R.* 57, 369-70 (1947).—As the lattice parameter of austenite is changed from 3.56 to 3.61 Å, in alloys from 0% C to 1.52% C at 0°, the martensite point drops in a smooth curve from about 420° to about 100° for the high-C content. The curve has calcd. values except at the highest C content, where possible formation of cementite may be responsible for the deviation from the calcd. values. G. M. K.

| COMMON ELEMENTS | | | | | | | | | | PROCESSORS AND PROPERTIES INDEX | | | | | | | | | | 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
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| <p style="text-align: center;">Influence of Coefficient of Work Hardening of Metals Upon Profile of Mound Surrounding Impression Obtained in Hardness Test. M. V. Yakutovich, B. A. Vandyashev, and E. E. Surikova. Henry Bratcher, Translation No. 2464, 10 pages. From <i>Zavodskaya Laboratoriya</i> (Factory Laboratory), v. 14, Mar. 1949, p. 338-343.</p> <p style="text-align: center;">Materials studied were Al, duralumin, Cu, Armco iron, and two alloy steels. Describes experimental procedure. Presents results of study, their evaluation, and sources of error.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASB-55A METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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18

A REILIENT DYNAMOMETER FOR A TORSION MACHINE WITH AUTOMATIC RECORDING
OF THE COMPLETE DIAGRAM. F. P. Rybalko and M. V. Yakutovich.
(Zavodskaya Laboratoriya, 1948, vol. 14, Aug., pp. 1014-1015).
(In Russian).

A brief description is given of a dynamometer and the circuit used
for the electrical automatic recording of its readings when used
for torsion tests. S.K.

ASB.3LA METALLURGICAL LITERATURE CLASSIFICATION

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YAKUTOVICH, M. V.

USSR/Physics

Material Test Techniques

Dec 48

"Distribution of Cold Working Around A Conical Impression," F. S. Savitskiy, B. A. Bandyshev, M. V. Yakutovich, Sverdlovsk Affiliate, All-Union Sci Res Inst of Metrol, 3 $\frac{1}{2}$ pp

"Zavod Lab" Vol XIV, No 12

Conical Indentation was produced by pressure on a specimen of hardened and tempered steel having a fine-grained and homogeneous structure. Diameter of the base of the indentation was 4 mm, and hardness of the area around this was determined with a Vickers hardness tester after mechanical and electrolytic polishing. Indentations were distributed radially around the edge of the hole at intervals of one mm, and results are presented in the form of lines of equal hardness. Similar tests were carried out on compressed specimens, and results of these are presented in the same way and in relation to deformation.

PA 49/49T103

B

Residual Stresses in Carburized Steel Plates. Quenched from Below A. E. S. Yakovleva and M. V. Yakutovich. Henry Brucher (Altadena, Calif.). Translation No. 2127, 1948, 7 pages. From *Zhurnal Tekhnicheskoi Fiziki* (Journal of Technical Physics), v. 18, no. 2, 1948, p. 207-210.

Previously abstracted from original source under title "Residual Stresses in Case-Hardened Steel Specimens, Quenched from Temperatures Below Ac."

ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION

ABSTRACT

READY TO COPY

[illegible]

YAKUTOVICH, M. V.

USSR/Metals

Nov 48

Steel, Silicon
Stress Analysis

"Expansion of polycrystalline Silicon Iron (4.2% Si) Within the Temperature Range -195° to 800°C ," G. N. Kolesnikov, E. S. Yakovleva, M. V. Yakutovich, Inst Phys of Metals, Ural Affiliate, Acad Sci USSR, Sverdlovsk, 7 pp

"Zhur Tekh Fiz" Vol XVIII, No 11

Expansion diagram of silicon iron shows low and high temperature types. Describes in detail state of diagram for various temperatures. Adduces temperature relationship, resistance to deformation, time deformation, proportional elongation, and sum of proportional and quasi-proportional elongations. Refutes the expression, suggested by F. F. Vitman, and V. A. Stepanov for relation of limits of yield to absolute temperature in wide interval of temperatures. Submitted 23 Apr 48

PA 18/49T92

Dist. ab.

Dist. ab.

Distribution along the axis of the distortion of a test piece by torsion.
Mr. V. Yakutovich and F. P. Rybalko (C. R. Acad. Sci. URSS, 1948, no. 227—229).—Curves show the distribution along the axis of the distortion by torsion of cylindrical test-pieces of steel tempered at 800°, and of 70 : 30 brass. For steel the max. distortion is 7 times, for brass only 1.7 times the mean. This is due to the difference in plasticity.
A. H. DENHAM.

YAKUTOVICH, M. V.

PA 11/49T79

USSR/Metals

Jul 48

Stress Analysis
Plastic Deformation

"Plasticity of Steel During Deformation by Tension
and Torsion," M. V. Yakutovich, F. P. Rybalko,
Inst of Metallophys, Ural Affiliate, Acad Sci
USSR, Sverdlovsk, 2 pp

"Dok Ak Nauk SSSR" Vol LXI, No 2

Determines maximum tensile and shear stresses for
E-10 steel and "Khromasil", cooled to various
temperatures. Plots results. Submitted 4 May 48.

11/49T79

VAPILTOVICH, M. V.

Chemical Abst.

Vol. 43 No. 8

Aug. 25, 1956

Author: V. V. VAPILTOVICH

Mechanism of plastic deformation of
Aluminum
References

Formation and Expansion of Cracks in Hardened Steel Having a Heterophase Structure. (In Russian.) V. A. Pavlov and M. V. Yakubovich. *Zhurnal Tekhnicheskoi Fiziki* (Journal of Technical Physics), v. 19, Apr. 1949, p. 465-470.

The origin and propagation of cracks during bending of specimens having the following structures were investigated: martensite with a ferrite lattice along boundaries of former austenite grains; martensite with bainite; martensite with globular inclusions of ferrite, and an annealed martensite with cementite lattice. Causes of decrease of strength upon incomplete hardening of steel are indicated.

valuation B-60430

ASH-52 METALLURGICAL LITERATURE CLASSIFICATION

12B-123. Influence of Microfissures Formed During Hardening on Properties of Steel. (In Russian.) V. A. Pavlov and M. V. Yakutovich. Zhurnal Tekhnicheskoi Fiziki (Journal of Technical Physics), v. 19, Apr. 1949, p. 471-480.

Investigated for a steel with and without microfissures. Mechanical properties of both types, annealed to 200, 300, 400, 600, 800 and 700° C. were studied during application of torsional force. Presence of microfissures decreases values of maximum relative shear by 90% at annealing to 200° C. and by 25-30% at temperatures between 400 and 600° C. After annealing to above 650° C. plastic properties of both specimens are identical.

ASTM-35A METALLURGICAL LITERATURE CLASSIFICATION

YAKUTOVICH, N. V.

Apr 49

USSR/Physics
Steel - Torsion Tests
Metallography

"Influence of Tempering Micro-Cracks Upon the Mechanical Properties of Steel in Torsion,"
V. A. Pavlov, N. V. Yakutovich, Inst Phys of Metals, Ukrainian Affiliate, Acad Sci USSR,
10 pp

"Zhur Tekh Fiz" Vol XIX, No 4

Prepared two types of specimens of type 60C2 steel: (1) quenching-cracks, 120 - 130 microcracks per sq mm of slide surface and (2) without micro-cracks, with same metallographic structure and micro-hardness. Studies mechanical properties of both types of specimen in torsion after tempering at 200, 300, 400, 500, 600 and 700° C. Showed that presence of micro-cracks decreases maximum relative shear by 90% after tempering at 200° and by 25 - 30% after tempering in 400 - 600° range. Reduction of stresses at rupture (by 15 - 20%) was noticed only after tempering at 200°. After tempering above 650°, properties of both groups of specimens are identical. Submitted 1 Dec 48.

PA 48/49T103